

UNIVERSITY PARTNER



Concept And Technologies Of AI

Report on AI and Ethics of AI

Student name: Shirish Shrestha

Group: L5CG6

Student ID: 2060135

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1. Introduction to AI

Facial recognition, medical diagnostics, and self-driving cars are just some of the amazing things that artificial intelligence (AI) -based innovation has made possible. AI promises to have a significant positive impact on social progress, economic growth, human well-being and security. However, AI-based innovation poses serious risks to users, designers, humankind, and social structures due to their low accountability, information trends, information security, privacy, and moral concerns. AI systems work with algorithms using methods such as rules, deep learning, and machine learning.

The AI system is supplied with computer data by machine learning algorithms, so it can learn from the AI system. Artificial intelligence systems are increasingly performing tasks without the need for special programming, thanks to machine learning. AI can cover everything from autonomous weapons to IBM Watson search algorithms. Companies around the world are transforming the way AI technology is used, automating previously difficult tasks, quickly finding patterns in data and revealing unparalleled insights.

2. Brief History of AI

Modern artificial intelligence has its roots in the attempt by ancient philosophers to model the human mind as a symbolic system. However, the 1956 symposium at Dartmouth College in Hanover, New Hampshire did not officially launch the field of artificial intelligence. This is where the term "artificial intelligence" first appeared.

Since ancient times, there have been stories, legends, and rumors about artificial creatures that have been given intelligence and consciousness by their masters. This is the beginning of artificial intelligence (AI). The classical philosopher's attempt to characterize the human mind as a mechanical manipulation of signs laid the foundation for modern artificial intelligence. The culmination of this work was the development of a programmable digital computer in the 1940s, a device based on the abstract nature of mathematical reasoning. A group of scientists was motivated by the device and the concepts behind it to carefully examine the feasibility of developing an electronic brain.

3. Future of AI

There is a bright future for AI. Numerous humanoid robots are being produced. not just people, but also animals like dogs and cheetahs. Given that it is predicted that humans will be replaced by robots in the future, this could be a concern. For the future, numerous new technologies have already been created. There will be autonomous cars, buses, and trucks soon. Robots wandering the streets is something that scientists are preparing for. It is predicted that if robots are created and manufactured in huge quantities, humans would go extinct and there will be robot wars on earth. However, in the near future, the impact will spread to various other industries. Machine learning is critical to our future as it is essentially an application of artificial intelligence. Computers can process vast amounts of data and use their intelligence to make better decisions using artificial intelligence. From cutting-edge research on climate change to medical advances in cancer treatment, everything can be traced back to artificial intelligence. AI is used in various fields.

- Surveillance: Using CCTVcameras, AI has made it possible to monitor individuals. Face Recognition technology developed using AI is used by CCTV cameras.
- Agriculture: Predictive analysis, crop and soil monitoring, and other tasks rely on AI. Robots have assisted in replacing outdated farming methods and in increasing crop production.
- Gaming: Ai is used in video games primarily to give non-player characters (NPCs) human-like intelligence through responsive, adaptable, or intelligent behavior.
- Space Exploration: NASA scientists and astronauts have employed AI to explore the universe. Scientists have found exoplanets, stars, galaxies, and a wide variety of other things in the universe with the aid of AI.

4. Introduction to Ethics

The concepts of ethics are difficult, complex, and confusing. Ethics may be defined because the behavior of a personal or a bunch of individuals or the moral principles that guide the behavior. In other words, ethics could be a standard or rule or framework of rules that helps determine what's sweet or right. loosely, morality is characterized as teachings handling law instead of off base, and ethical obligations and obligations of matter (eg, humans, intelligent robots, etc.). Ethics has been studied by many analysts in various disciplines. the majority are ethical savvy from a young age, as they will be a guide to behaviors that are internalized by parents and teachers to assist children benefit.

5. Introduction to Ethics in AI

The study of moral dilemmas in AI is called AI ethics. You need to think about AI morale and how to build AI morale to deal with AI morale. AI Morality examines moral norms, laws, regulations, rules, policies, and policies that apply to AI. The ethical obligations and obligations of AI and its creators are referred to by the term "AI ethics." Analysts have spent a lot of time studying people's moral dilemmas. Human behavior is driven by a variety of moral systems, including acts and practices such as respect, charity, justice, confidentiality, correctness, property / ownership, accessibility, impartiality, accountability and transparency. Be regulated. Ethics of artificial intelligence is part of the ethics of advanced technology focused on robots and other artificial intelligence professionals. It can be divided into machine morals and robot ethics (robot morals). Roboethics addresses the ethical behavior of those who design, build, use, and operate AI professionals, as well as the associated impact of robots on humans and society. This essay excludes the ethical issues caused by AI and includes the ethical issues that arise during the design and development of AI (eg, human orientation to information, information protection, simplicity) with AI ethics. Consider (eg unemployment and wealth sharing). Encourage them to think about the rights of robots, or the idea that humans should have ethical obligations to smart machines, as machines become smarter and perhaps more conscious in the future.

AI that adheres to ethical standards ensures that its actions respect people and do no harm to them. Information often reflects social preferences, and if this bias remains uncorrected, AI systems can make biased decisions. AI companies need to make sure that all decisions, from the partners they choose to the organization of their IT teams to the data they collect, help minimize bias. In addition, ethical AI standards must be adopted to ensure the development of AI-driven breakthroughs. Industry self-regulation is also far more effective than government efforts when engineers and engineers adhere to moral standards in invention and design.

6. Challenges of Ethic In AI

- Unemployment / Lack of Purpose & Meaning: Robots and AI devices almost completely replace most repetitive tasks. As a result, unemployment has occurred. Large organizations are looking for AI robots that can perform similar tasks more effectively than workers with minimal skills. Poverty can be exacerbated in developing countries.
- Lack of Emotions: Machines are incapable of developing an emotional connection with people since they lack all forms of emotion. Despite being accurate, they are unable to form relationships with and collaborate with humans.
- Security: As technology becomes more sophisticated, AI can be used for both good and evil reasons. This applies to autonomous weapon systems and robots created to replace human soldiers, and artificial intelligence systems that can harm the hands of malicious people. Cybersecurity is much more important because these wars aren't just about fighting on the battlefield. After all, we are dealing with systems that are orders of magnitude more powerful and faster than humans.

7. CONCLUSION

AI is a powerful concept with many potential applications. We can conclude that there are multiple uses in every industry, including banking, healthcare and gambling. Moral things have many strengths and weaknesses. If you use AI wisely, it will help us do great things and improve our lives. On the one hand, it can be fatal, which can put an end to human inhabitants on Earth.

(Escott, 2017) (Thomas, 2021) (Bossmann, 2016)

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